



Sustainable Energy, Transportation, & Air Quality: Classroom Resources

Compiled by

NH Department of Environmental Services Air Resources Division

	Resources
Curriculum Guides, Lessons & Activities	<p><u>Air Pollution: What's the Solution?</u> Explore ground-level ozone pollution through interactive online teaching unit for Grades 6-9 (www.k12science.org/curriculum/airproj/about.html)</p> <p><u>Air Quality Education Program</u>, Delaware Dept. of Natural Resources and Environmental Control – Air Quality Management Section (2000) (www.dnrec.state.de.us/DNREC2000/Divisions/AWM/aqm/education/educationprogram.htm)</p> <p><u>Biodiesel Curriculum Guide</u>, Grades 4-12 www.biodiesel.org/pdf_files/Biodiesel_Curriculum_Schools.pdf</p> <p><u>Clean Air Lesson Plans</u>, Grades 4-8 – Georgia's Clean Air Campaign (www.cleanaircampaign.com/index.php/cac/for_schools/clean_air_lesson_plans/)</p> <p><u>Cleaner Cars Module</u> (www.nsc.org/ehc/mse.htm) An initiative to encourage responsible car maintenance and driving habits among future drivers; National Safety Council, 1025 Connecticut Avenue NW, Ste 1200, Washington DC 20036 (202)293-2270</p> <p><u>Easy Breathers</u> (www.easybreathers.org) Wisconsin Department of Natural Resources-project funded in part by US EPA, Wisconsin Department of Transportation, and Midwest Express Airlines</p> <p><u>Energy Conservation</u>, E2: Environment and Education, Dale Seymour Publication, Teacher Resource Guide and Student Edition</p> <p><u>Extraordinary Road Trip</u> Eco-driving tips and understanding the issues. www.extraordinaryroadtrip.org/research-library/</p> <p><u>Future Wheels for a Sustainable America</u> Transportation Issues for Innovative Education Resource Guide for K-12 Teachers; Compiled by the Northeast Sustainable Energy Association with funding from the US Department of Energy. (www.nesea.org)</p> <p><u>Going Places, Making Choices</u> (www.4hgpmc.com/) Transportation and the Environment (Grades 9-12) developed by the National 4-H Council, 7100 Connecticut Avenue, Chevy Chase MD 20815 (301) 961-2800</p> <p><u>Getting Around Clean and Green: Transportation and the Environment</u> Northeast Sustainable Energy Association, Leading the Way to Sustainable Transportation; NESEA, 50 Miles Street, Suite 3, Greenfield, MA 01301 Chris Mason and Nancy Proctor-Perkins (www.nesea.org)</p> <p><u>Getting Around Without Gasoline</u> NESEA, Funded by Environmental Education Grant from US EPA and Northeast Utilities (www.nesea.org)</p> <p>NH Sustainable Energy Association, (resource guide for homeowners) www.nhsea.org</p> <p><u>Northeast Energy Education NetCenter</u>, US Dept. of Energy, Energy Efficiency & Renewable Energy, http://www.eere.energy.gov/regions/northeast/reen/about.html</p> <p><u>National Renewable Energy Laboratory</u> education programs www.nrel.gov/education/</p> <p><u>Planet Polluto</u>. Interactive activity for elementary students. www.planetpolluto.com/</p> <p><u>Project A.I.R.E.</u> EPA Region 1 Student & Teacher air resources webpage www.epa.gov/region01/students/teacher/aire.html</p>

Videos	<p>Videos:</p> <p>Exhausted (from National Safety Council's Cleaner Cars Module)</p> <p>Ozone Danger In The Air We Breathe</p> <p>Ozone: Double Trouble (1993)</p> <p>Car Smart: Air Pollution & Cars (Environmental Protection Agency, 1990)</p> <p>Asthma in the Air (Wisconsin Department of Natural Resources)</p>
Annual Environmental Events	<p>February: National Radon Month</p> <p>April: National Car Care Month</p> <p>April 22nd – Earth Day</p> <p>May:</p> <p>Bike/Walk to Work Week</p> <p>Tour de Sol (visit Northeast Sustainable Energy Association, www.nesea.org)</p> <p>Clean Air Week (Last week in May)</p>
Websites	<p>DES Air Resources – main website: http://des.nh.gov/ard_intro.htm</p> <p>DES Mobile Sources website:</p> <p>des.nh.gov/ard/mobilesources/</p> <p>Center for Neighborhood Technology</p> <p>www.airhead.org/index.php?AH_Session=b1f44a062e6b3091aedc30a315bo7b44</p> <p>Environmental Organization Web Directory (www.webdirectory.com)</p> <p>“Air Quality Index for Kids – Teacher’s Material” -</p> <p>(www.epa.gov/airnow/aqikids/teachers.html)</p>
Classroom Presentations Provided by DES	<p>Air Quality Monitoring – Overview of the six criteria air pollutants that are monitored in NH in accordance with the Clean Air Act. Focus is on Ozone and Particle Pollution. (Grades: 5-12, Duration: 1 to 1.5 hours)</p> <p>The Air Quality and Energy Connection – Explores relationship between energy and air quality. Focus is on how individuals can make every day behaviors to keep the air clean. (Grades: K-12, Duration: 1-1.5 hours)</p> <p>Climate Change – Scientific evidence supports the theory that the climate is changing rapidly as a result of human activity. Explains why scientists are concerned for our future, and what governments, businesses, and individuals can do to try to reverse this change. (Grades: 5-12 Duration: 1-1.5 hours)</p> <p>Acid Rain – Air and water are intricately connected. Focus is on where air pollution comes from, how “acid rain” was discovered, and how our communities are being affected. (Grades: 4-12, Duration: 1-1.5 hours)</p> <p>Ground-Level Ozone – “Smog” (ground-level ozone) is perhaps our most challenging air pollution problem. Focus is on the health effects of ground-level ozone, what the government is doing to reduce it, what you can do to protect your health, and how you can help reduce pollutants that form ozone. (Grades: 2-12, Duration: 1-1.5 hours)</p> <p>Toxic Air Pollutants – Clean Air Act requires monitoring of six criteria air pollutants, however NH is concerned with over 800 toxic air pollutants.</p>
Additional School and Extracurricular Activities	<p>Indoor Air Quality, Tools for Schools (EPA), Policies for Cleaner Schools (www.epa.gov/region1/eco/iaq/airbrea.html)</p> <p>Anti-Idling School Buses:</p> <p>(www.des.nh.gov/ard/mobilesources/default.asp?theLink=initiative)</p>
For More Information	<p>Kathy Brockett, Education and Outreach (603) 271-6284</p> <p>kbrockett@des.state.nh.us</p> <p>Barbara Fales, Education and Outreach (603) 271-1390</p> <p>bfales@des.state.nh.us</p>

New Hampshire's Educators – Doing Our Share For Clean Air!